SURGICAL INSTRUMENT AND SET SELECTION

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Instrument Identification

- **Utilize M 27NONZ222C-2, C-3, and C-4 to study and complete the exercises on surgical instrumentation.**
- **Identification of instruments will be tested on exam #11 at the end of phase one.**

Processing of Soiled Instruments

- **Factors that influence how soiled instruments are cleaned.**
  - **The type of instruments.**
    - **Heat sensitive, submergible.**
    - **Non-heat sensitive, submergible.**
    - **Heat sensitive, non-submergible.**

- **Type and amount of soiling.**
- **Type of water.**
- **Cleaning material used.**

Processing Soiled Inst.

- **Steps to manually clean heat sensitive submergible instruments.**
  - **Put on protective equipment.**
  - **Open all hinged instruments.**
  - **Soak instruments in a basin of warm detergent water.**
  - **Scrub instruments individually with a brush while maintaining submersion.**

- **Rinse in a basin of warm water.**
- **Dry instruments with a towel, mechanically, or by air.**
- **Assemble into instrument sets.**
- **Wrap and sterilize the set.**

Processing Soiled Inst. Cont.

- **Steps to machine clean soiled, non heat sensitive submergible instruments.**
  - **Put on personal protective equipment.**
  - **And disposable gloves**
  - **Open hinged instruments.**
  - **Soak instruments in detergent water.**
  - **Separate and place instruments in a perforated pan.**

- **Process in a washer-sterilizer.**
  - **Load pans in machine.**
  - **Add detergent.**
  - **Activate the machine.**

- **Process instruments in the ultrasonic cleaner.**
  - **Clean and terminally sterilize instruments.**
  - **Loosely load tray with heavy instruments on the bottom and light ones on top.**
  - **Do not mix different types of metals.**
  - **Process in an ultrasonic cleaner.**

Step Used for Checking Instruments

- Loosen tight or frozen hinges, place in instrument milk.
- Reassemble multi-part instruments and check function.
- Look for broken or damaged sharp edges on scissors.
- Eliminate worn or nonfunctioning instruments.

Selection and Wrapping of Instrument Sets

- **Obtain instrument set card.**
- **Select the proper sized perforated tray and prep as needed.**
  - **Set to be wrapped in cloth or non-woven material, line with a towel.**
  - **If using a genesis pan, no towel is required.**

- **Select instruments and supplies listed on card.**
  - **Inspect instruments and supplies for debris, defects, and completeness.**
  - **Place larger instruments and retractors in bottom of pan.**
  - **Utilize skewers for ringed instruments.**

Selection and Wrapping Cont.

- Wrap delicate or sharp instruments with a protective material, place in pan on top of other instruments.
- Group clamps together, count and place on stringer from small to large, place in pan.

- **Double check instruments with card.**
- **Prepare the set for sterilization in one of three ways.**
  - **Double wrap in two double-thickness muslin wrappers and label the set.**
  - **Double wrap in two disposable wrapper.**
  - **Place into genesis pan.**

- **Label set.**
- **Sterilize instrument sets.**
  - **Steam- Used for non-heat sensitive sets.**
  - **Gas- Used for heat sensitive sets.**

Assembling Sets in a Genesis Pan

- Obtain instrument set card.
- Assemble instruments as described in section D.
- Place indicator in the middle of the pan.
- Prepare genesis pan.
  - Place filter element in lid of pan.
  - Place filter in bottom of pan.

- **Place set into prepared pan.**
- **Secure lid.**
- **Use devices to verify the integrity of the set.**
  - **Place arrows in the appropriate slots.**
  - **After sterilization, if an arrow is broken it indicates that the seal on the set has been broken.**

- **Place name of instrument set on card label.**
- **Place initials on card.**

DEMONSTRATION

- **Prepare set for sterilization.**
  - **Inspect wrappers for defects, wear, and stains.**
  - **Place outer (second) wrapper on a flat surface with a corner nearest your body.**
  - **Place inner (first) wrapper on top of the outer wrapper.**
  - **Place sterilization indicator and set in the center of the wrappers, parallel to you.**

- **Fold side nearest to you so the edge is 3 to 4 inches past the midpoint.**
- **Fold the edge back towards you 2 to 3 inches to create a courtesy flap.**
- **Fold each side edge towards the middle, flap are not required.**
- **Fold the edge farthest from you towards your body , covering item and folds.**

- **Position wrapped set in center of the outer wrapper.**
- **Repeat all steps as in the first wrapper.**
- **Secure the double wrapped package with the appropriate pressure sensitive sterilization indicator tape.**

QUESTIONS?